consoleconnect

September 2023

Interconnection
Automation

Hello, everyone! —

I'm thrilled to be here today to explore a game-changing concept that's shaping the future of networking: **Interconnection Automation**.

In a world where **speed**, **scalability**, and **seamless** experiences are paramount, interconnecting networks is a cornerstone.

Today, we'll journey into the realm of **Interconnection Automation**—a concept that's transforming how businesses, IXPs, data centers, and cloud providers connect and collaborate.
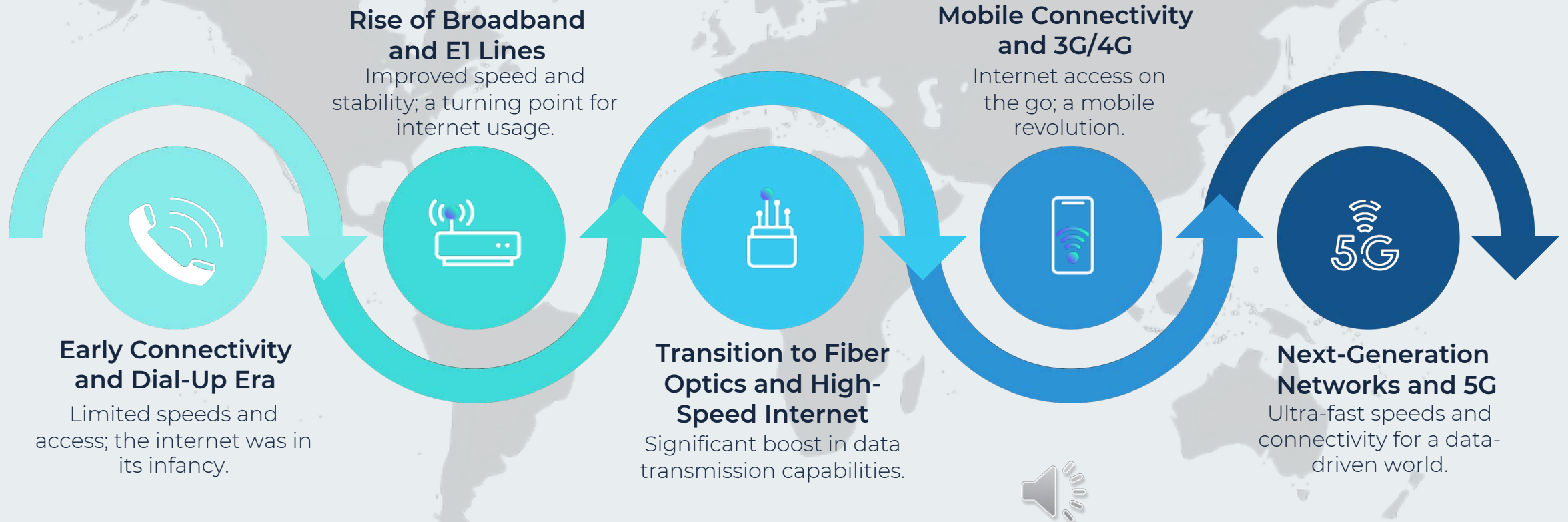
Lisa Wright

Head of IXaaS & Ecosystem Partner Manager

Console Connect

consoleconnect

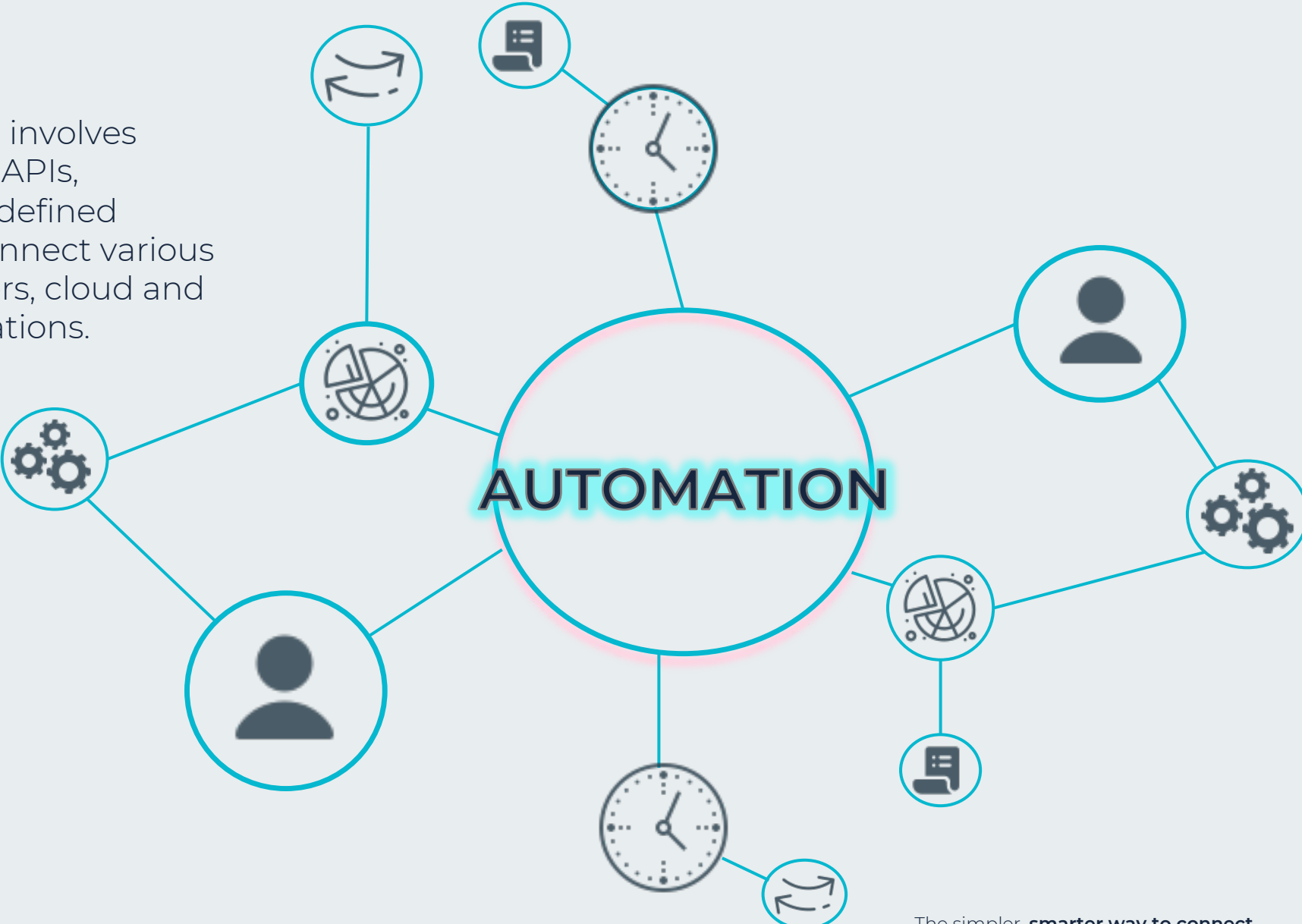The simpler, **smarter way to connect**

Interconnection
Automation

Interconnection automation involves leveraging technologies like APIs, orchestration, and software-defined networking to seamlessly connect various digital assets, like data centers, cloud and peering services, and applications.

Key Benefits

- ✓ Rapid deployment process
- ✓ Reduced costs
- ✓ Improved accuracy
- ✓ Enhanced security
- ✓ Increased agility

AUTOMATION

The simpler, **smarter way to connect**

$2.5 billion

The global market for interconnection automation is expected to reach $2.5 billion by 2025.

Businesses that have implemented some form of interconnection automation.

60%

The average cost savings of interconnection automation

30%

The average time savings of interconnection automation is

50%

The average improvement in network performance of interconnection automation

20%

80%

Businesses believe that interconnection automation is critical to their success;

The simpler, **smarter way to connect**

A view in todays landscape of
Interconnection Automation

The current landscape of interconnection automation often involves a **semi-automated** approach, where a combination of human oversight and automated processes is employed to manage interconnected systems.

Interconnection Automation has emerged as a strategic tool for businesses providing;

- Enhanced Connectivity

- New avenues for revenue generation

- Extended reach

- Diversification of critical data transmission

- Hybrid and multi-cloud adoption

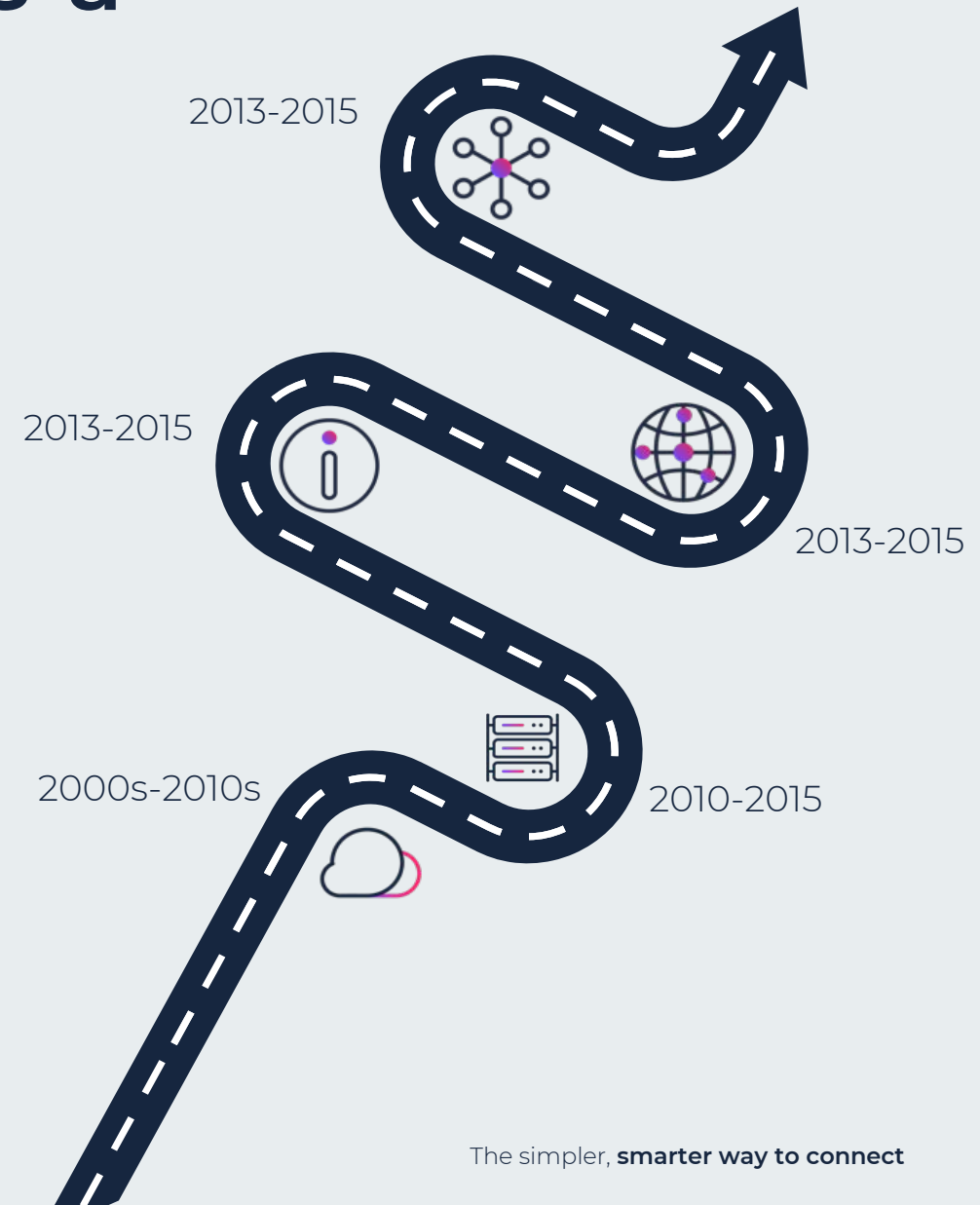- Edge Computing

- Digital Transformation

The evolution of "**Network-as-a-Service**"

Network as a Service (NaaS) has evolved from a concept to a prominent model for delivering network services.
It began with basic services in the mid-2000s and gained momentum with the rise of cloud computing.

The adoption of Software-Defined Networking (SDN) and Network Function Virtualization (NFV) in the 2010s brought greater flexibility and programmability to networking.

In the mid-2010s, NaaS offerings emerged, enabling organizations to access a variety of network services through subscriptions.

NaaS continues to evolve, with a growing emphasis on edge computing and the delivery of advanced networking solutions as on-demand services.
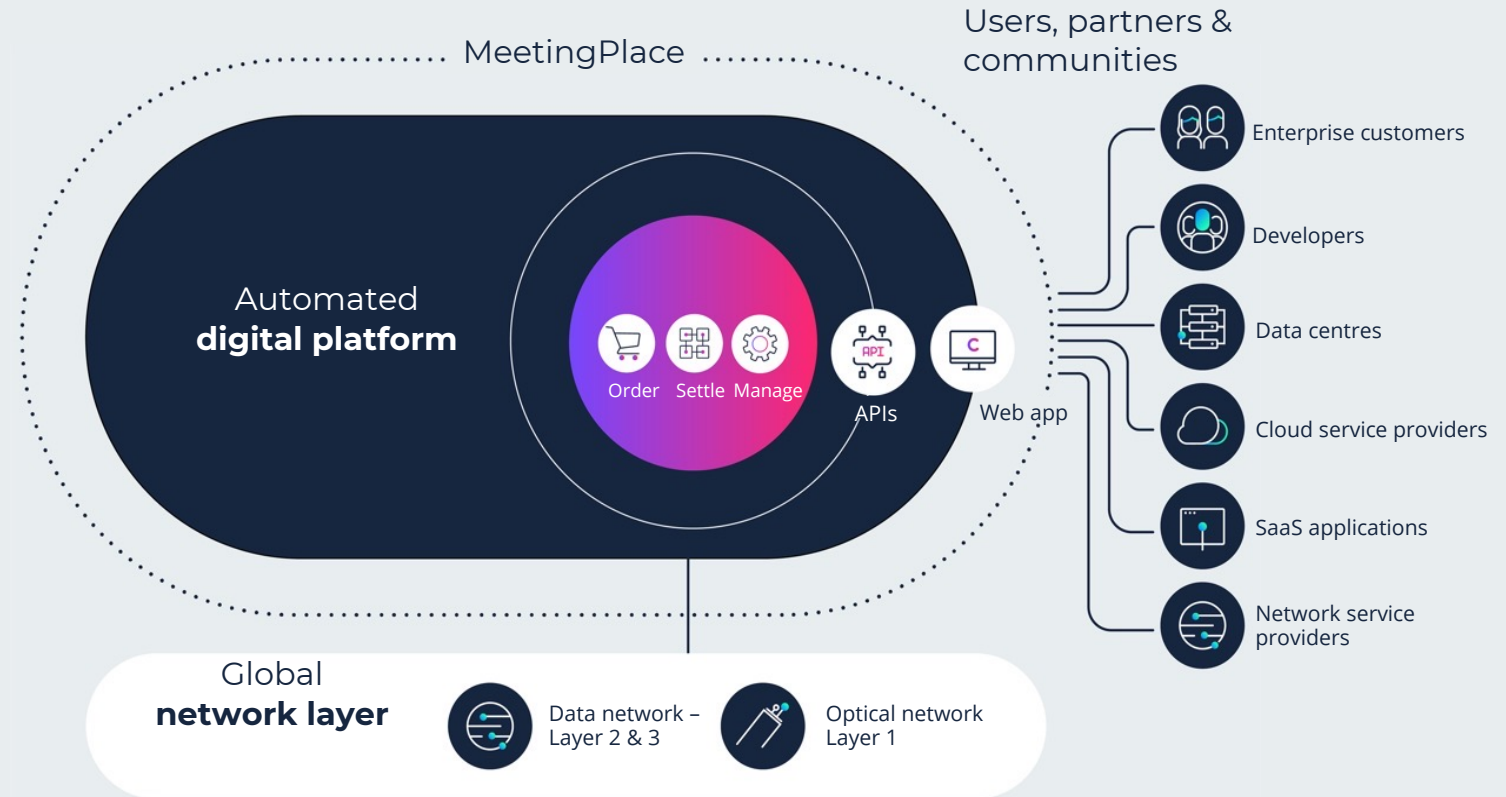
2013-2015

2013-2015

2013-2015

2000s-2010s

2010-2015

The simpler, **smarter way to connect**

The rise of an **automated "MarketPlace"**

consoleconnect

A modern technological landscape is witnessing the emergence of a dynamic automated Marketplace, where businesses are seamlessly interconnecting with 3rd party applications and partners.

Through collaborative efforts, the fabric of connectivity is extending, allowing for the virtualization of diverse connectivity flavours.

This evolution is leading to the creation of a convenient one-stop-shop, streamlining access to a range of digital assets such as data centers, cloud services, and applications.

.

MeetingPlace

Automated **digital platform**

Order Settle Manage   APIs   Web app

Users, partners & communities

Enterprise customers

Developers

Data centres

Cloud service providers

SaaS applications

Network service providers

Global **network layer**

Data network – Layer 2 & 3

Optical network Layer 1

Key Benefits   ✓ Efficiency ✓Cost Savings ✓ Innovation Scalability ✓Global Reach

The simpler, **smarter way to connect**

A look into the "Future"

The future of interconnection automation reveals a landscape where advanced technologies reshape the way networks, devices, and systems interact.

Hyper-Connected Ecosystems:

- Interconnected systems become more widespread, including smart cities, intelligent transportation, and industrial IoT.

AI-Driven Autonomy:

- AI manages interconnected systems, self-configuring, self-healing, and self-optimizing networks.

- AI analyzes data to predict and prevent failures, allocate resources, and adapt to changing conditions.

Real-Time Decision-Making:

- Edge computing and AI enable instant decisions at data sources.

- Reduces latency, enhances responsiveness, aids applications like autonomous vehicles and industrial automation.

Quantum-Powered Optimization:

- Quantum computing optimizes complex tasks like route planning, resource allocation, and cryptography.

- Quantum machine learning advances problem-solving for faster, efficient interconnected systems.

Decentralized Networks:

- Blockchain and decentralized tech enhance security and transparency in interconnections.

- Streamlines transactions, authentication, and data sharing, especially in trust-critical contexts.

Continuous Evolution:

- Interconnection automation evolves dynamically with emerging technologies, standards, and paradigms.

The Future is Now, Doc!

Step into the future of interconnection automation, where a world of possibilities unfolds. Users stand to reap the rewards of this technological leap, enjoying an **open fabric of fabrics** that intertwines seamlessly.

Imagine a landscape where digital interactions are orchestrated effortlessly. With interconnection automation, users can navigate through various services, applications, and platforms as if they were strolling through a well-organized marketplace. This interconnected realm operates like a symphony, where APIs, software-defined networking, and orchestration harmonize to create a seamless experience.

The true magic lies in the **open fabric of fabrics**. This concept takes the intricacy of interconnection to a new level, allowing different systems and technologies to interweave naturally. Just as different threads form a tapestry, these fabrics of connection come together to create a unified digital ecosystem.

The simpler, **smarter way to connect**

The **End** ──

consoleconnect

Thank you for your time. We would love to hear from you:

Australia
Level 3 | 200 Mary Street | Brisbane QLD 4000 | Australia

United Kingdom
7/F 63 St. Mary Axe | London EC3A 8AA | UK

France
2/F 16 rue Washington | 75008 Paris | France

Greece
340 Kifisias Avenue/340 Olimpionikon | Neo Psychiko 154 51 | Athens | Greece

Germany
Schillerstr. 31 | 60313 Frankfurt/M. | Germany

United States
475 Springpark Place | Suite 100 | Herndon | VA 20170 | USA

Singapore
6 Temasek Boulevard | #41-04A/05 | Suntec Tower Four | 038986 | Singapore

Hong Kong
20/F, Telecom House | 3 Gloucester Road | Wan Chai | Hong Kong

Japan
11F – 11A-3 | Imperial Hotel Tower | 1-1-1, Uchisaiwaicho, Chiyoda-ku | Tokyo 100-0011 | Japan

South Africa
Building 12 | 1 Woodmead Drive | Woodmead | Johannesburg 2191 | South Africa

UAE, Dubai
Office 401 & 408 | Level 4 | Arjaan Business Tower| Dubai Media City | Dubai

Reach out   lwright@consoleconnect.com

The simpler, **smarter way to connect**
The simpler, **smarter way to connect**